

Schottky Barrier Diodes

These Schottky barrier diodes are designed for high current, handling capability, and low forward voltage performance.

Features

- Low Forward Voltage -0.24 Volts (Typ) @ $I_F = 10$ mAdc
- High Current Capability
- ESD Rating Human Body Model: CLASS 3B
 - Machine Model: C
- Pb-Free Packages are Available

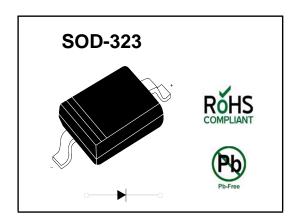
MAXIMUM RATINGS (T_J = 125°C unless otherwise noted)

Rating	Symbol	Value	Unit
Reverse Voltage	V_R	20	Vdc
Peak Revese Voltage	V_{RM}	23	V
Forward Power Dissipation @ T _A = 25°C Derate above 25°C	P _F	200 2.0	mW mW/°C
Forward Current (DC) Continuous	IF	1	Α
Forward Current t = 8.3 ms Half Sinewave	lF	5	Α
Junction Temperature	T_J	125 Max	°C
Storage Temperature Range	T _{stg}	-55 to +150	°C

Maximum ratings are those values beyond which device damage can occur. Maximum ratings applied to the device are individual stress limit values (not normal operating conditions) and are not valid simultaneously. If these limits are exceeded, device functional operation is not implied, damage may occur and reliability may be affected.

PINNING

PIN	DESCRIPTION			
1	Cathode			
2	Anode			



SR0320WS

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

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Characteristic	Symbol	Min	Тур	Max	Unit
Total Capacitance (V _R = 5.0 V, f = 1.0 MHz)	C _T	-	25	29	pF
Reverse Leakage (V _R = 15 V)	I _R	-	10	50	μAdc
Reverse Leakage (V _R = 2.0 V @ 85° C)	I _R	-	200	300	μΑ
Reverse Leakage (V _R = 15.0 V @ 85° C)	I _R	-	450	1000	μΑ
Forward Voltage (I _F = 10 mAdc)	V _F	-	0.24	0.27	Vdc
Forward Voltage (I _F = 100 mAdc)	V _F	-	0.30	0.35	Vdc
Forward Voltage (I _F = 900 mAdc)	V _F	-	0.45	0.50	Vdc

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Typical Characteristics

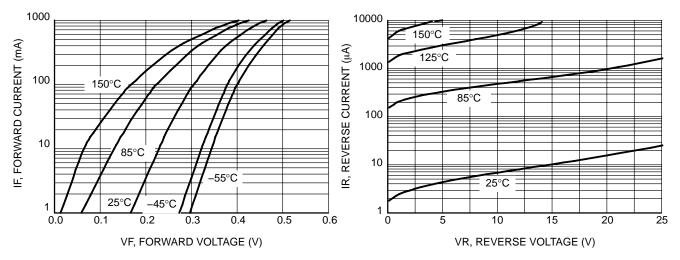


Figure 1. Forward Voltage

Figure 2. Leakage Current

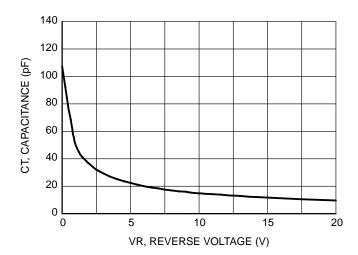


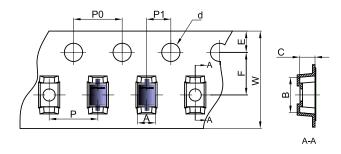
Figure 3. Total Capacitance

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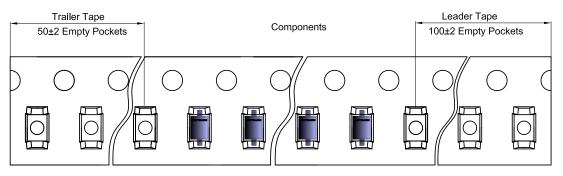
SOD-323 Tape and Reel

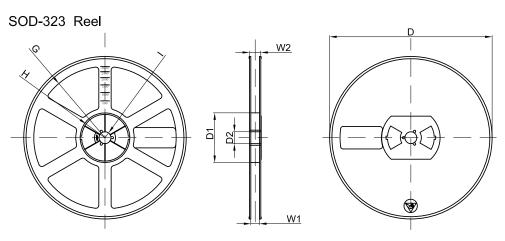
SOD-323 Embossed Carrier Tape



	Dimensions are in millimeter									
Pkg type A B C d E F P0 P P1 W							W			
SOD-323	1.48	3.3	1.25	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOD-323 Tape Leader and Trailer





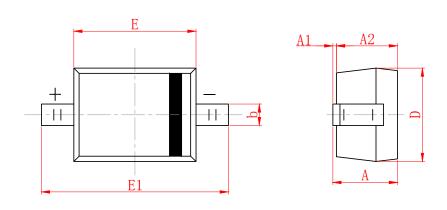
Dimensions are in millimeter								
Reel Option	D	D1	D2	G	Н	Ţ	W1	W2
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

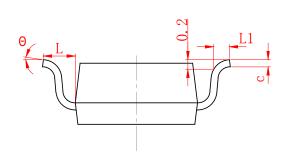
REEL	Reel Size	Вох	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	

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SOD-323 Package Outline Dimensions





	MILLIMETER				
SYMBOL	MIN	MAX			
A		1.000			
A1	0.000	0. 100			
A2	0.800	0. 900			
b	0. 250	0. 350			
С	0.008	0. 150			
D	1. 200	1. 400			
E	1. 600	1.800			
E1	2. 500	2. 700			
L	0. 475 (REF)				
L1	0. 250	0. 400			
θ	0°	8°			

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